

Claims

What is claimed is:

1. A method comprising:
  - a) determining whether to route an incoming call intended for a directory number supported by a wireline switch to a mobile terminal via a terminal adaptor operatively associated with the wireline switch or to the mobile terminal via a cellular network;
  - b) when determining the incoming call should be routed via the terminal adaptor, instructing the wireline switch to route the incoming call to the mobile terminal via the terminal adaptor; and
  - c) when determining the incoming call should be routed via the cellular network, instructing the wireline switch to route the incoming call to the mobile terminal via the cellular network using a temporary routing indicia, which is temporarily associated with the mobile terminal to facilitate routing the incoming call to the mobile terminal via the cellular network.
2. The method of claim 1 wherein the temporary routing indicia is a temporary directory number provided by the cellular network and used to route the incoming call to a cellular switch currently supporting the mobile terminal.
3. The method of claim 1 further comprising accessing routing information and determining whether to route the incoming call via the terminal adaptor or the cellular network based on the routing information.
4. The method of claim 3 wherein the routing information comprises the temporary routing indicia when the incoming call should be routed via the cellular network.
5. The method of claim 4 wherein the home location register obtains the temporary routing indicia from a visiting location register, which is associated with a cellular switch supporting the mobile terminal.

6. The method of claim 3 wherein the routing information comprises first information relating to the directory number when the incoming call should be routed via the terminal adaptor.
7. The method of claim 1 wherein the mobile terminal is not permanently associated with a dedicated directory number for the cellular network and is only associated with the directory number.
8. The method of claim 1 further comprising receiving from the wireline switch a first message indicative of an incoming call intended for the directory number.
9. The method of claim 1 wherein the directory number is assigned to a telephony line associated with the terminal adaptor.
10. The method of claim 1 wherein instructing the wireline switch to route the incoming call to the mobile terminal via the terminal adaptor further comprises instructing the wireline switch to continue processing the incoming call using the directory number to effect a connection with the mobile terminal via the terminal adaptor.
11. The method of claim 1 wherein instructing the wireline switch to route the incoming call to the mobile terminal via the cellular network using the temporary routing indicia further comprises instructing the wireline switch to forward the incoming call using the temporary routing indicia to effect a connection with the mobile terminal via the cellular network.
12. The method of claim 1 further comprising receiving registration information from the terminal adaptor or the mobile terminal indicating incoming calls should be routed via the terminal adaptor.

13. The method of claim 1 further comprising receiving deregistration information from the terminal adaptor or the mobile terminal indicating incoming calls should be routed via the cellular network.
14. The method of claim 1 further comprising:
  - a) providing a home location register, which is associated with the wireline switch; and
  - b) receiving at the home location register, registration information from the cellular network indicating incoming calls to the mobile terminal can be routed via the cellular network.
15. The method of claim 14 wherein the registration information is received from a visiting location register associated with the cellular network.
16. The method of claim 1 wherein the terminal adaptor and the mobile terminal are adapted to communicate using local wireless communications.
17. The method of claim 16 where the local wireless communications are effected using one of 802.11, DECT, Bluetooth, and analog cordless technologies.
18. The method of claim 1 where the cellular network is based on one of GSM, CDMA, UMTS, TDMA, and analog cellular technologies.
19. A system comprising:
  - a) at least one communication interface; and
  - b) a control system associated with the at least one communication interface and adapted to:
    - i) determine whether to route an incoming call intended for a directory number supported by a wireline switch to a mobile terminal via a terminal adaptor operatively associated with the wireline switch or to the mobile terminal via a cellular network;

- ii) when the incoming call should be routed via the terminal adaptor, instruct the wireline switch to route the incoming call to the mobile terminal via the terminal adaptor; and
  - iii) when the incoming call should be routed via the cellular network, instruct the wireline switch to route the incoming call to the mobile terminal via the cellular network using a temporary routing indicia, which is temporarily associated with the mobile terminal to facilitate routing the incoming call to the mobile terminal via the cellular network.
- 20. The system of claim 19 wherein the temporary routing indicia is a temporary directory number provided by the cellular network and used to route the incoming call to a cellular switch currently supporting the mobile terminal.
- 21. The system of claim 18 wherein the control system is further adapted to access routing information and determine whether to route the incoming call via the terminal adaptor or the cellular network based on the routing information.
- 22. The system of claim 20 wherein the routing information comprises the temporary routing indicia when the incoming call should be routed via the cellular network.
- 23. The system of claim 22 wherein the temporary routing indicia is accessed from a visiting location register, which is associated with a cellular switch supporting the mobile terminal.
- 24. The system of claim 21 wherein the routing information comprises first information relating to the directory number when the incoming call should be routed via the terminal adaptor.

25. The system of claim 19 wherein the mobile terminal is not permanently associated with a dedicated directory number for the cellular network and is only associated with the directory number.
26. The system of claim 19 wherein the control system is further adapted to receive from the wireline switch a first message indicative of an incoming call intended for the directory number.
27. The system of claim 19 wherein the directory number is assigned to a telephony line associated with the terminal adaptor.
28. The system of claim 19 wherein to instruct the wireline switch to route the incoming call to the mobile terminal via the terminal adaptor, the control system is further adapted to instruct the wireline switch to continue processing the incoming call using the directory number to effect a connection with the mobile terminal via the terminal adaptor.
29. The system of claim 19 wherein to instruct the wireline switch to route the incoming call to the mobile terminal via the cellular network using the temporary routing indicia, the control system is further adapted to instruct the wireline switch to forward the incoming call using the temporary routing indicia to effect a connection with the mobile terminal via the cellular network.
30. The system of claim 19 wherein the control system is further adapted to receive registration information from the terminal adaptor indicating incoming calls should be routed via the terminal adaptor.
31. The system of claim 19 wherein the control system is further adapted to receive deregistration information from the terminal adaptor or the mobile terminal indicating incoming calls should be routed via the cellular network.

32. The system of claim 19 wherein the control system is further adapted to:
  - a) provide a home location register, which is associated with the wireline switch; and
  - b) receive at the home location register, registration information from the cellular network indicating incoming calls to the mobile terminal should be routed via the cellular network.
33. The system of claim 32 wherein the registration information is received from a visiting location register associated with the cellular network.
34. The system of claim 19 wherein the terminal adaptor and the mobile terminal are adapted to communicate using local wireless communications.
35. The system of claim 34 wherein the local wireless communications are effected using one of 802.11, DECT, Bluetooth, and analog cordless.
36. The system of claim 19 wherein the cellular network is based on one of GSM, CDMA, UMTS, TDMA, and analog cellular technologies.